

FIGURE 1 (PRIOR ART)

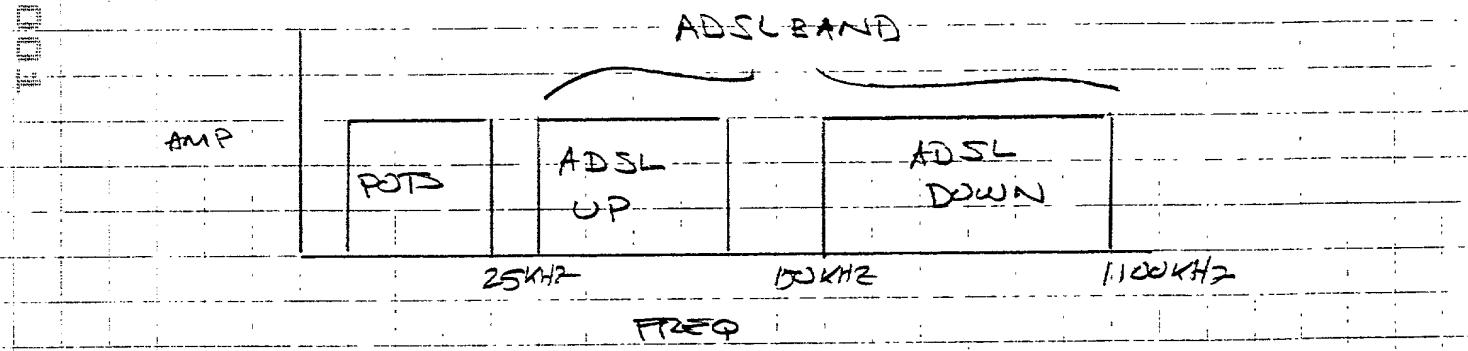
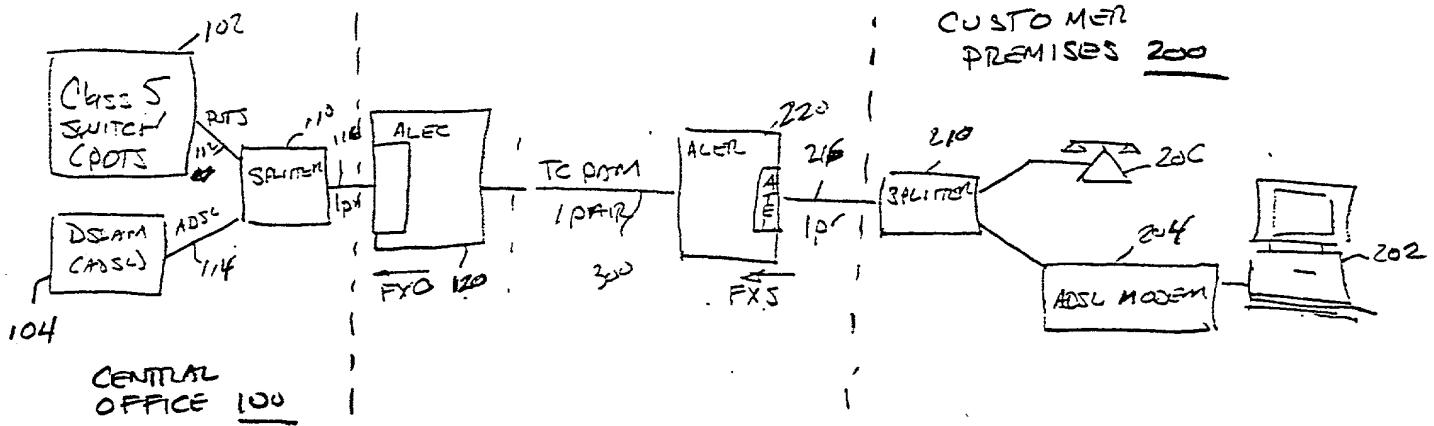


FIG 2 (PRIOR ART)

FIGURE 3



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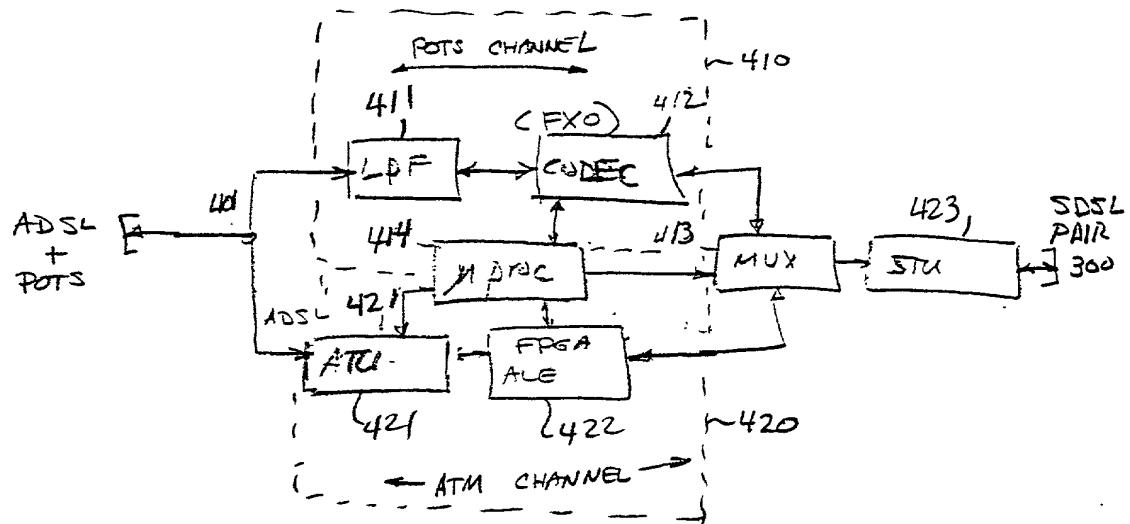
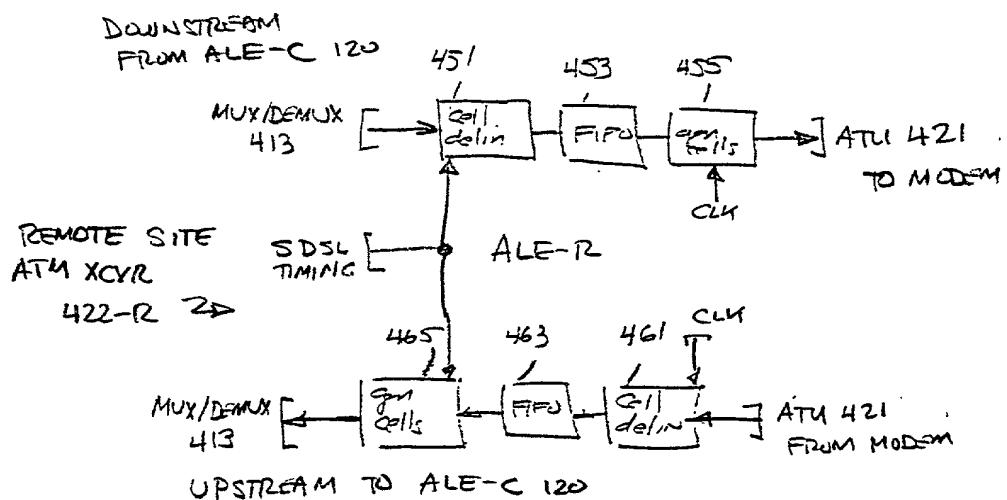
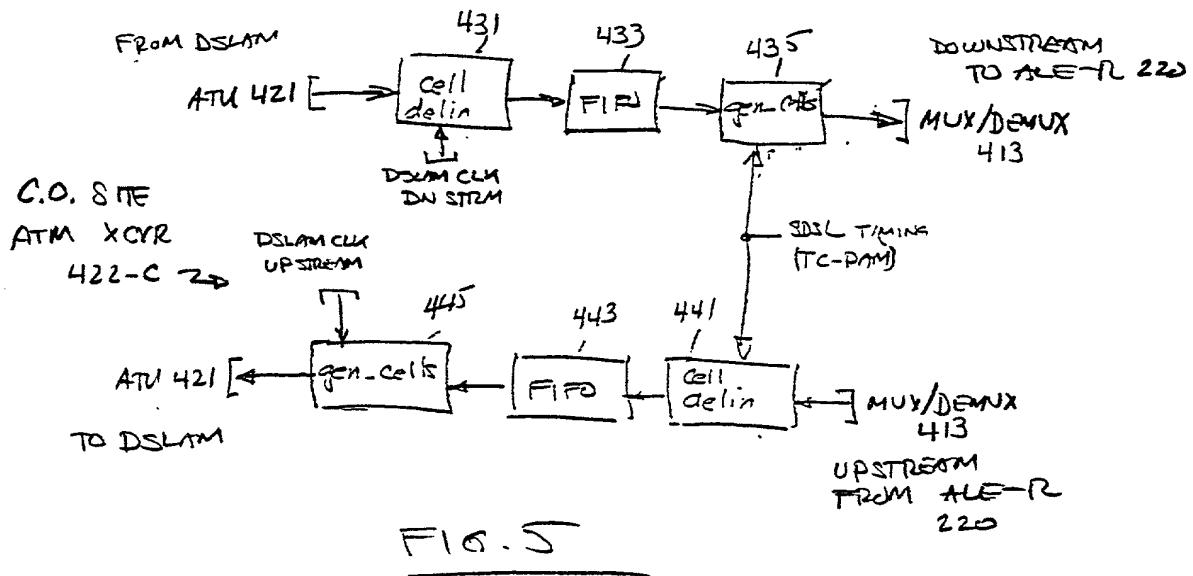


FIGURE 4



DSLAM . LINK..

Downstream

$N = \text{DSLAM downstream}$

$N \times 32K$

$+8K$
IDLE
CELL
INS RATE

SDSL LINK
300

$(N \times 32K) + 8K$

$+24K$
IDLE
CELL
INS
RATE

ADSL Modem Link

$(N+1) \times 32K$

Upstream

if $\text{DSLAM upstream} \leq \text{SDSL rate}$

$M = \text{DSLAM upstream}$

$M \times 32K$

$+24K$
IDLE
CELL
INS RATE

$[(M-1) \times 32K] + 8K$

$+8K$
IDLE
CELL
INS RATE

$(M-1) \times 32K$

if $\text{DSLAM upstream} > \text{SDSL rate}$

$P = \text{SDSL rate}$

$M = \text{DSLAM upstream}$

$(M \times 32K)$

$[(P \times 32K)] + 8K$

$P \times 32K$

$[(M-P-1) \times 32K] + 24K$
IDLE
CELL
INS RATE

$+8K$
IDLE
CELL
INS RATE

FIGURE 7